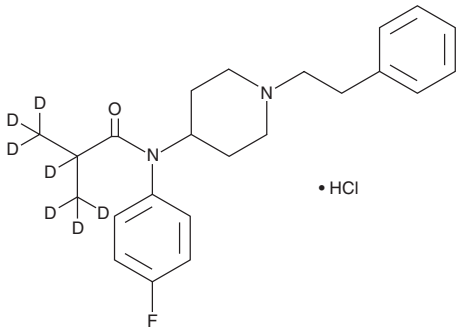
PRODUCT INFORMATION

FIBF-d_7 (hydrochloride)

Item No. 22621

CAS Registry No.: 2747917-34-4
Formal Name: N-(4-fluorophenyl)-2-(methyl-d_3)-N-(1-phenethylpiperidin-4-yl)propanamide-2,3,3,3-d_4, monohydrochloride
Synonyms: *p*-FIBF-d_7, *p*-fluoro iBF-d_7, *p*-fluoro Isobutyryl fentanyl-d_7, *p*-Fluoroisobutyryl fentanyl-d_7, *para*-FIBF-d_7, *para*-fluoro iBF-d_7, *para*-fluoro Isobutyryl fentanyl-d_7, *para*-Fluoroisobutyryl fentanyl-d_7
MF: $C_{23}H_{22}D_7FN_2O$ • HCl
FW: 412.0
Chemical Purity: ≥98% (FIBF)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_7); ≤1% d_0
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥5 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

FIBF-d_7 (hydrochloride) (Item No. 22621) is intended for use as an internal standard for the quantification of FIBF (Item Nos. 19795 | 19313) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

FIBF is categorized as an opioid.[1] It has been associated with fatal multidrug overdoses, as well as overdoses where it was the sole intoxicant responsible for death.[2] FIBF-d_7 is regulated as a Schedule I compound in the United States. This product is intended for research and forensic applications.

References

1. Hassanien, S.H., Bassman, J.R., Perrien Naccarato, C.M., *et al. In vitro* pharmacology of fentanyl analogs at the human mu opioid receptor and their spectroscopic analysis. *Drug Test. Anal.* **12(8)**, 1212-1221 (2020).
2. Pardi, J., Toriello, A., and Cooper, G. Evaluation of 4 fuoroisobutyrylfentanyl in blood samples from 247 authentic cases submitted to the New York City Office of Chief Medical Examiner in 2017–2018. *Forensic Toxicol.* **38**, 340-351 (2020).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM